



Observation of fission in Pb-Pb interactions at 158A GeV

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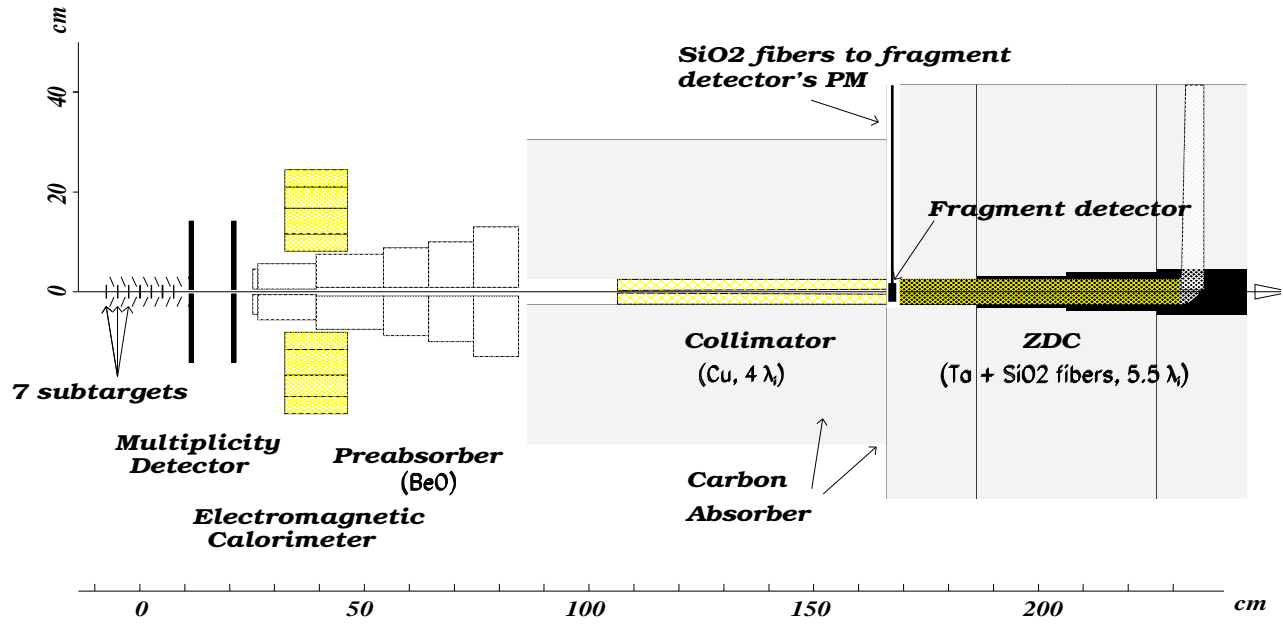


Figure 1: Experimental layout: the fragment detector and the standard NA50 detectors in the target and hadron absorber region are shown.

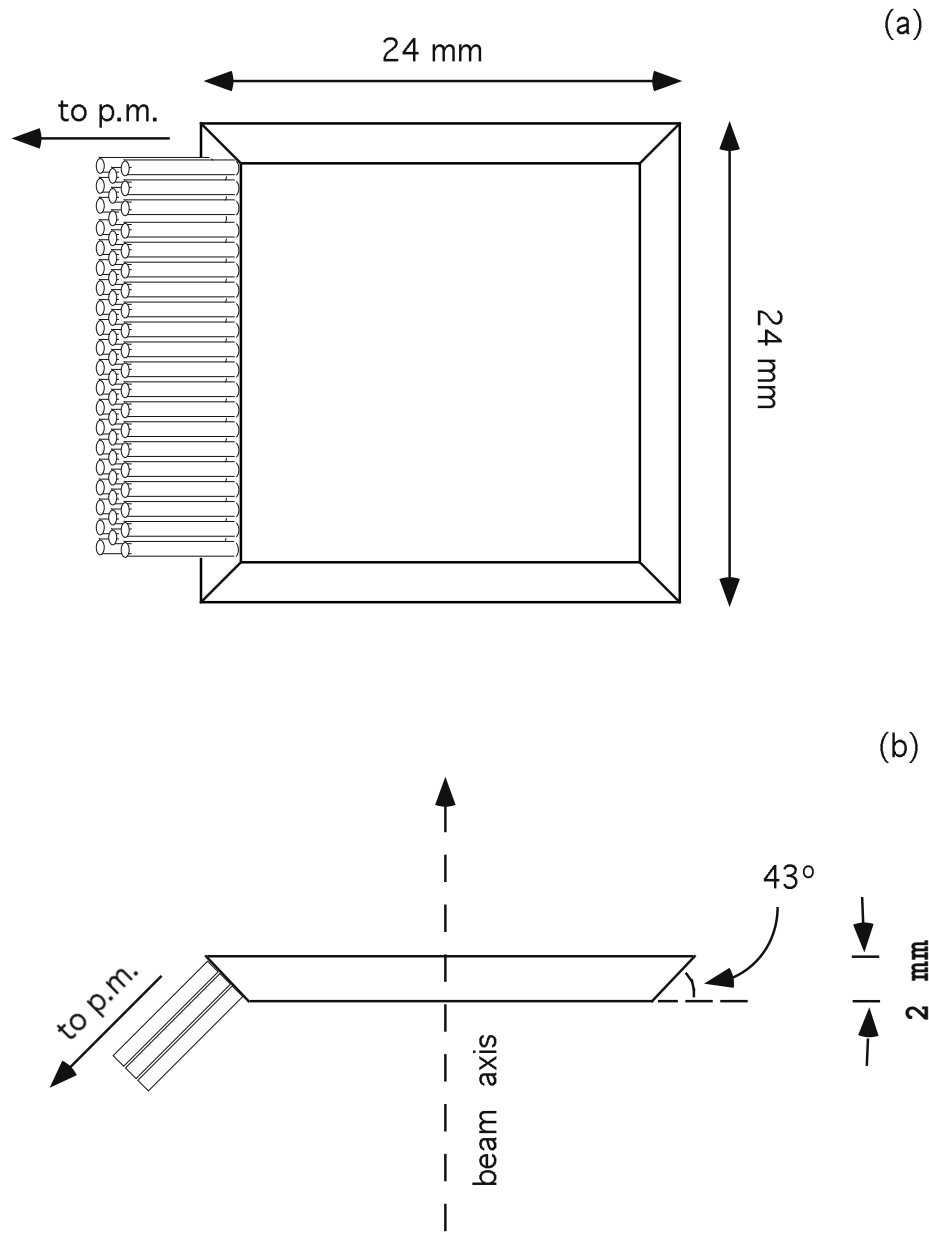


Figure 2: Structure of the fragment detector : (a) front view (the beam enters into the drawing); (b) top view. Note that for the sake of a clear presentation only a sample of the quartz fibers is shown and the fiber diameter is not in scale with respect to the quartz blade.

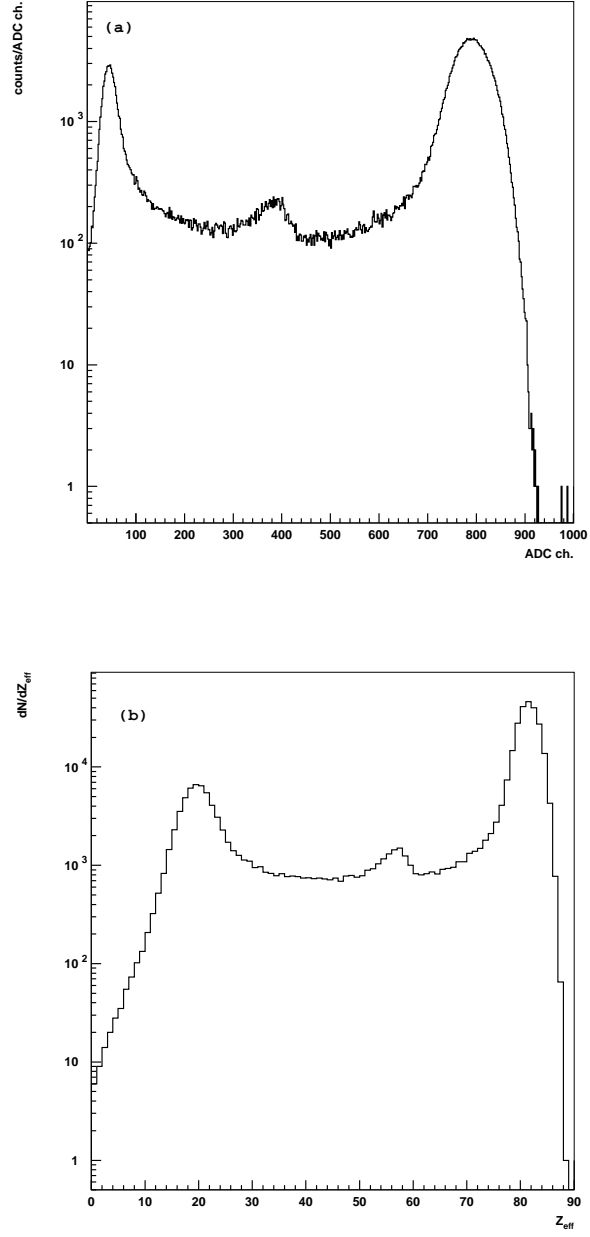


Figure 3: (a) Light output (ADC channels) and (b) Z_{eff} spectra measured by the fragment detector. The variable Z_{eff} is defined in the text.

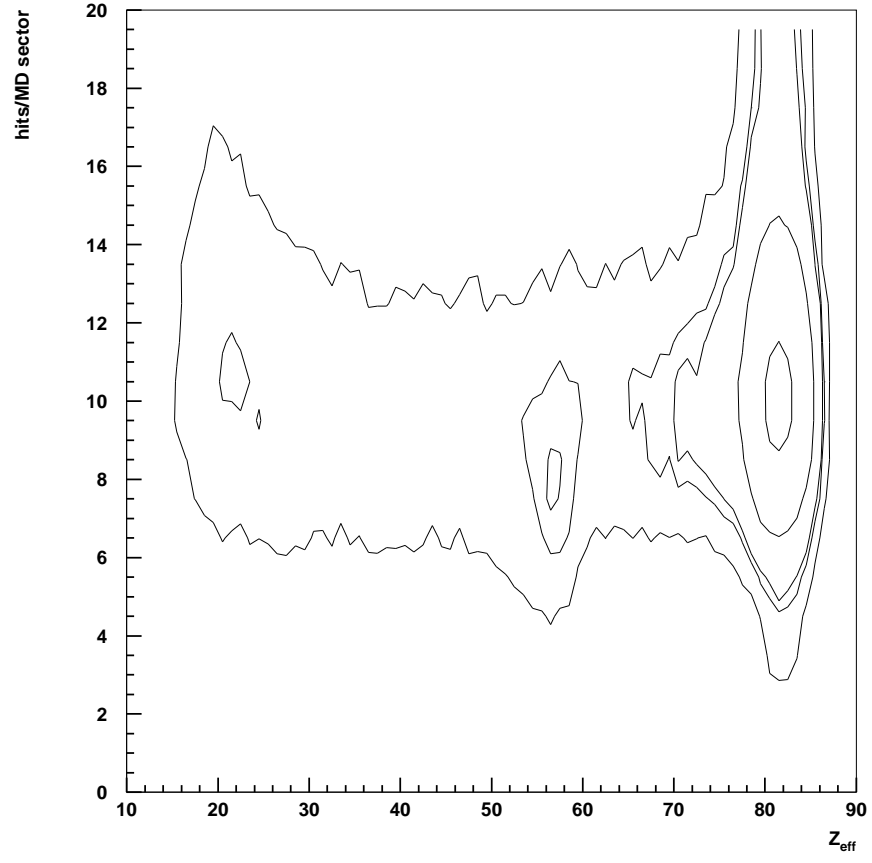


Figure 4: Contour plot of the number of hits per multiplicity detector sector (y axis) versus Z_{eff} (x axis).

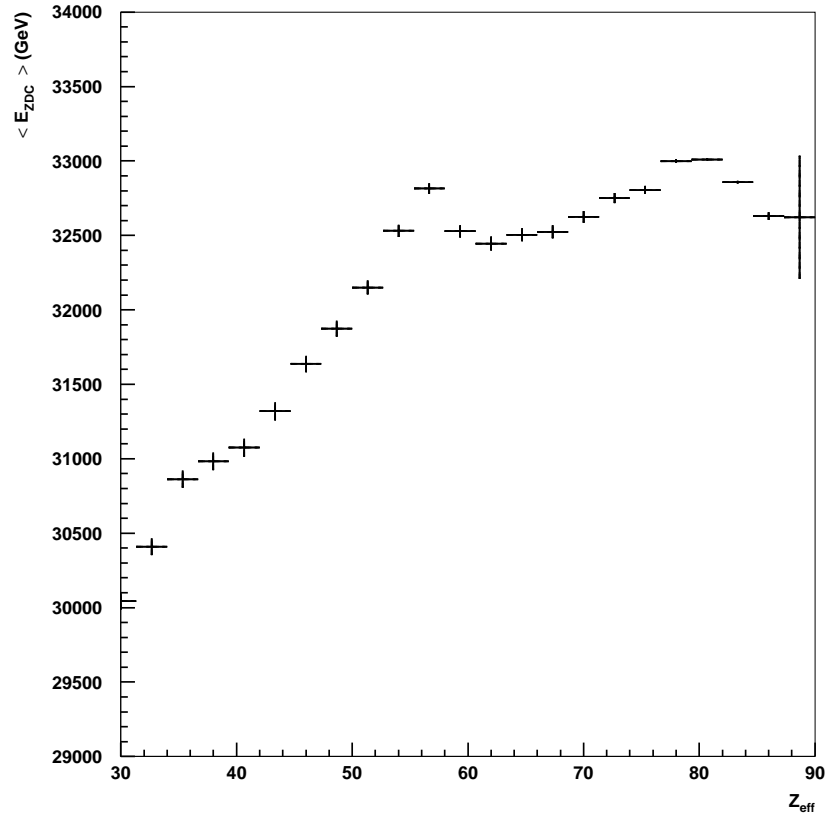


Figure 5: Mean value of the zero-degree energy ($\langle E_{ZDC} \rangle$) per bin of Z_{eff} , plotted as a function of Z_{eff} .

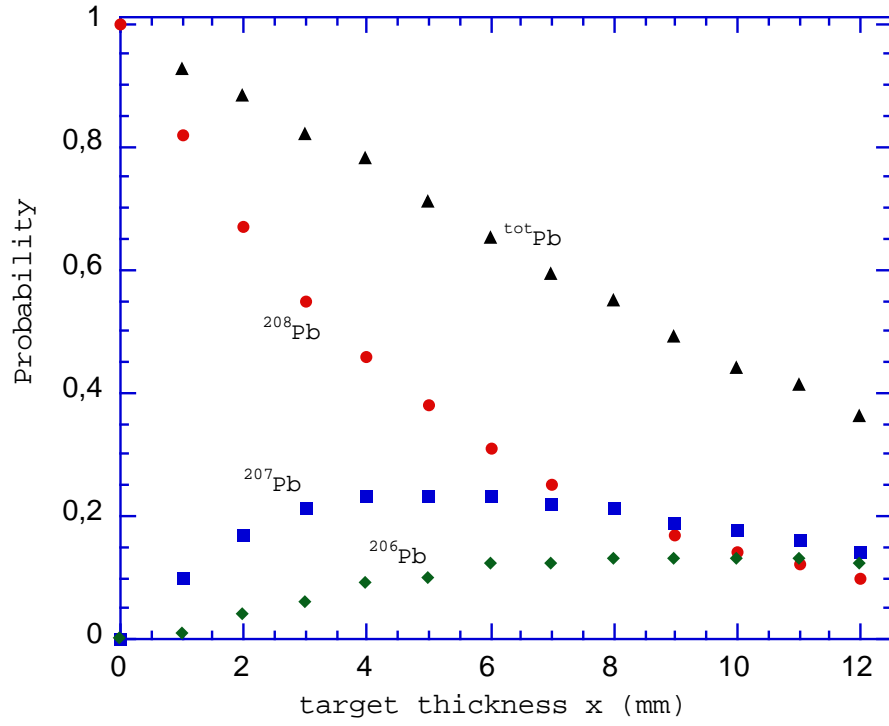


Figure 6: Probability of finding a ^{206}Pb (diamonds), ^{207}Pb (squares) and ^{208}Pb (circles) as a function of the depth x in the target. The sum of these probabilities ($^{tot}P(x)$, see text) is also shown (triangles).